[Drawing]

[Fig.1]

100 (Digital Item): content | metadata (100a, 100b)

101 (atomic Digital Item): atomic content | metadata (101a, 101b)

102 (component)::= resource | anchor | descriptor | op Condition | mur Condition | event Report | user Preference | reserved Metadata (102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h)

103 (packaged Digital Item): packaged content | metadata (103a, 103b)

104 (item)::= item/component | ... | item/component | choice | descriptor | mur Condition | event Report | user Preference | reserved Metadata (104a, 104b, 104c, 104d, 104e, 104f, 104g)

105 (packaged Digital Item): packaged Content | Metadata (105a, 105b)

106 (container)::= container | ... | container | item | ... | item | descriptor | mur Condition | event Report | user Preference | reserved Metadata (106a, 106b, 106c, 106d, 106e, 106f, 106g)

107 repository: resource component item container
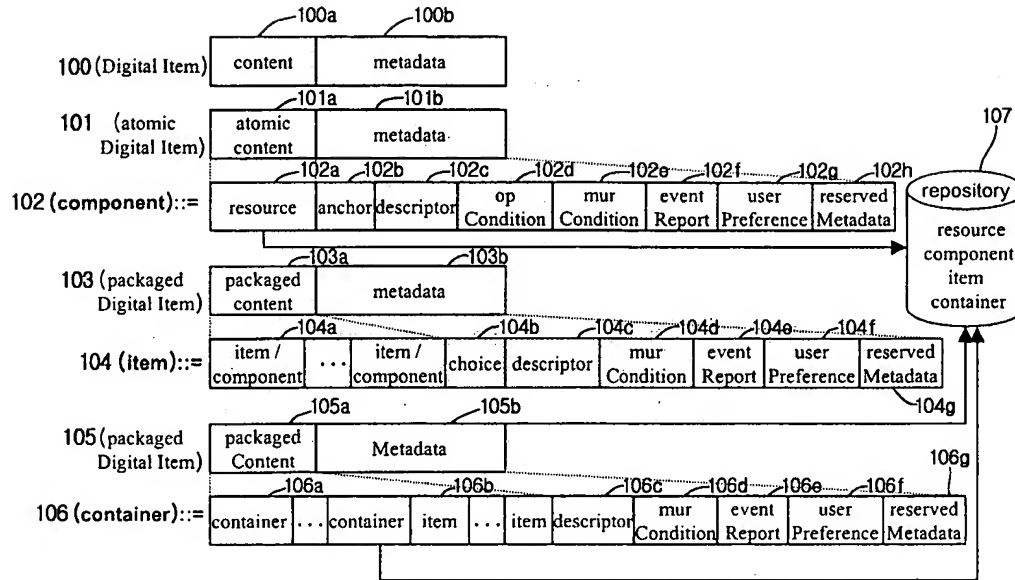
[Fig.2]

container ::= (anchor | container)* (anchor | item)* descriptor* murCondition* eventReport* userPreference* reservedMetadata*

item ::= (anchor | item | component)+ choice* descriptor* murCondition* eventReport* userPreference* reservedMetadata*

component ::= resource anchor descriptor* murCondition* opCondition* eventReport* userPreference* reservedMetadata*

anchor ::= reference descriptor* opCondition*

descriptor ::= (anchor | descriptor)* (component | statement) opCondition*

choice ::= choice* selection+ descriptor* opCondition*

selection ::= predicate descriptor* opCondition*

eventReport ::= anchor descriptor murCondition

userPreference ::= anchor descriptor murCondition

reservedMetadata ::= anchor descriptor murCondition

murCondition ::= predicate |

opCondition ::= predicate |

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[Fig.3]

300a   300b

301a resource	→	301b KennyG_WhiteChristmas.mp3
302a anchor	→	http://www.song.com/carol/kennyG_W hiteChristmas.mp3 302b
303a descriptor	→	Subject : White Christmas Genre : Carol 303b Composer : Kenny G Instrumentalist : Kenny G ⋮
304a murCondition	→	Last updated date : Jan. 5, 2001 usage rule : play only 304b Usage fee : $1 during 1 month ⋮
305a opCondition	→	Bit rate : 192 Kbps 305b Sampling rate : 24 KHz ⋮
306a eventReport	→	Percentage of transaction success :85% Frequency of access : 1500 per day Average delivery time : 3 min ⋮ 306b
307a userPreference	→	Outputs of Collaborative Filter, Clustering and Association Algorithms. ⋮ 307b